GC1600

Description

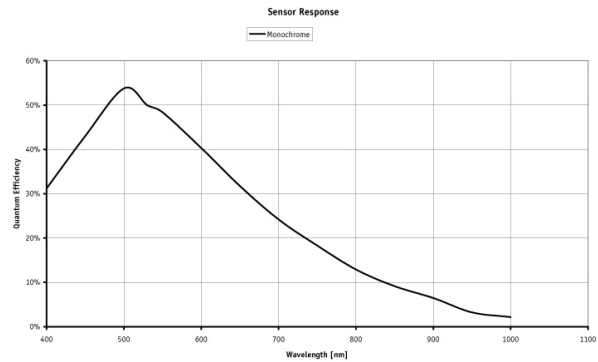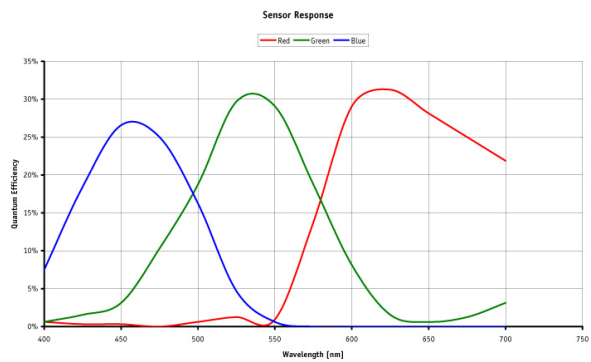### Ultra-compact 2 Megapixel CCD camera with GigE Vision

The 2 Megapixel GC1600 is a high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1600 incorporates a high-quality Sony CCD sensor providing excellent monochrome and color image quality. The GC1600 runs 15 frames per second at 1600 x1220 resolution and even faster with region of interest readout.

- Sony ICX274 Progressive scan CCD
- Very small and lightweight

- **Models:**
  ○ GC1600, 1620x1220, 15 fps, CCD, mono
  ○ GC1600C, 1620x1220, 15 fps, CCD, color

Specifications

Prosilica GC	1600
Interface	IEEE 802.3 1000baseT
Resolution	1620 x 1220
Sensor	Sony ICX274
Type	CCD Progressive
Sensor Size	Type 1/1.8
Cell size	4.4 µm
Lens mount	C
Max frame rate at full resolution	15 fps
A/D	12 bit
On-board FIFO	16 MB
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
Raw modes	Bayer8, Bayer12, Bayer16
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-coupled I/Os	1 input, 1 output
RS-232	1
Power/Mass/Dimensions/Regulations	
Power requirements (DC)	12 V
Power consumption (12 V)	3.2 W
Mass	97 g
Body Dimensions (L x W x H in mm)	59x46x33 including connectors, w/o tripod and lens
Regulations	CE, FCC, Class A, RoHS

Download Prosilica GC1600 technical drawing (click here)

Smart features

The GC1600 features include:

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

Applications

The GC1600 is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- ophthalmology
- LCD panel inspection
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications

Application Case Study:

- **Prosilica Cameras Capture the Thrill of Roller Coaster Rides**
  Multimedia & Entertainment: 3db Solutions Inc. of Canada uses Prosilica GigE Vision cameras for systems producing souvenir photos in amusement parks.